

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (previously presented): A method for the verification of anti-jamming in a communications system having several sensors or adaptive antennas, comprising the following steps :

estimating a mean power \bar{P}_y of the output of the communications system,

estimating a respective power values P_u or $P'u$, of a station u , the antenna noise P_a or $P'a$, the thermal noise P_T , or $P'T$,

estimating at least one of the following ratios :

$$J_{tot}/S_{tot} = \left(\sum_{p=1}^P ; \quad P_p \right) / \left(\sum_{u=1}^U ; \quad P_u \right)$$

with p = the jamming unit

= sum of the power values of the residual jamming units/sum of the power values of the stations on the reception band B

$$J_{tot}/S_u = \left(\sum_{p=1}^P ; \quad P_p \right) / P_u$$

= sum of the power values of the residual jamming units/power of the station u in the reception band B.

$$J_u/S_u = \left(\sum_{p=1}^P ; \quad P_{pu} \right) / P_u$$

with P_{pu} = power of the jamming unit p in the reception band B_u .

- comparing at least one of the three ratios with a threshold value.

2. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step for estimating the mean power $\hat{\sigma}_y^2$, for an output from a number K of samples, $y(k)$, $1 \leq k \leq K$ of this output, given by

$$\hat{\sigma}_y^2 = \frac{1}{K} \sum_{k=1}^K |y(k)|^2$$

3. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation \hat{P}_u , \hat{P}'_u of the power P_u , P'_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2$, w and G for an analog application of the filters and secondly the estimation of the parameters σ_u and S_u .

4. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising an estimation \hat{P}_u , \hat{P}'_u of the power P_u , P'_u in using, firstly, a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2$, w and G for an analog application of the filters and secondly the estimation of the parameter σ_a .

5. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation \hat{P}_u , \hat{P}'_u of the power P_u , P'_u in using a priori knowledge of the parameters w and G_{num} for a digital application of the adaptive filters and $|\hat{\sigma}|^2$, w and G for an analog application of the filters and secondly the estimation of the parameter σ_T .

6. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} / S_i^{\wedge} / S_{tot}^{\wedge}$, of the ratio J_{tot} / S_{tot} given by

$$J_i^{\wedge} / S_i^{\wedge} / S_{tot}^{\wedge} = (\square; y; \tilde{\Sigma}; \quad \prod_{u=1}^U P_i^{\wedge} u; \tilde{P}_i^{\wedge} a; \tilde{P}_i^{\wedge} T) / (\prod_{u=1}^U \Sigma; \quad P_i^{\wedge} u) \quad (26)$$

7. (previously presented): The method for the verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} / S_i^{\wedge} / S_u^{\wedge}$, of the ratio J_{tot} / S_u , given by

$$J_i^{\wedge} / S_i^{\wedge} / S_u^{\wedge} = (\square; y; \tilde{\Sigma}; \quad \prod_{u=1}^U P_i^{\wedge} u; \tilde{P}_i^{\wedge} a; \tilde{P}_i^{\wedge} T) / P_i^{\wedge} u \quad (27)$$

8. (previously presented): The method of verification of anti-jamming according to claim 1, comprising a step of estimation $J_i^{\wedge} / S_i^{\wedge} / S_u^{\wedge}$, of the ratio J / S_u in using the total power of residual jamming units in the B_u band of the working station u given by

$$J_i^{\wedge} / S_i^{\wedge} / S_u^{\wedge} = (\square; y u; \tilde{P}_i^{\wedge} u \tilde{\Sigma}; \quad \prod_{v \neq u}^U P_i^{\wedge} v u; \tilde{P}_i^{\wedge} a u; \tilde{P}_i^{\wedge} T u) / P_i^{\wedge} \quad (28)$$

9. (previously presented): A method of verification of anti-jamming according to claim 1 comprising a step of determination of the precision of estimation, and wherein this value is used to set the threshold.

10. (canceled):

11. (canceled):

12. (previously presented): A use of the method according to claim 1.

13. (canceled):

14. (canceled):